

**ABSTRACT OF THE DISCLOSURE**

The present invention is directed to unique methods and apparatus for suppressing impulse noise in a multipoint communications environment using a linear block interleaver. One representative embodiment comprises first logic configured to arithmetically combine a time series of input symbols into a block of N-symbol combinations, and second logic configured to transmit, on a separate channel, each N-symbol combination to a receiver. The first logic is located in a transmitter of a first communications device. The time series has size N and N is greater than one, and each of the input symbols is taken from a signaling constellation.